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* * * * * * * * * * Welcome to STN International * * * * * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 May 12 EXTEND option available in structure searching
NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent
 SDIs in Cplus
NEWS 6 May 27 CAplus super roles and document types searchable in REGISTRY
NEWS 7 Jun 22 STN Patent Forums to be held July 19-22, 2004
NEWS 8 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS 9 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
 and WATER from CSA now available on STN(R)
NEWS 10 Jul 12 BEILSTEIN enhanced with new display and select options,
 resulting in a closer connection to BABS

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 15:52:32 ON 26 JUL 2004

=> FIL REGISTRY
COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 15:52:59 ON 26 JUL 2004
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STRUCTURE FILE UPDATES: 25 JUL 2004 HIGHEST RN 716315-35-4
DICTIONARY FILE UPDATES: 25 JUL 2004 HIGHEST RN 716315-35-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s ^kpv/sqsp
L1 953 ^KPV/SQSP

=> s ^hfrwgkpv/sqsp
L2 38 ^HFRWGKPV/SQSP

=> s ^sysmehfrwgkpv/sqsp
L3 647 ^SYSMEHFRWGKPV/SQSP

=> FIL CAPLUS BIOSIS MEDLINE PCTFULL USPATFULL EUROPATFULL JAPIO SCISEARCH EMBASE
USPAT2 EUROPATFULL
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
80.34 80.55

FILE 'CAPLUS' ENTERED AT 15:54:28 ON 26 JUL 2004
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FILE 'JAPIO' ENTERED AT 15:54:28 ON 26 JUL 2004
COPYRIGHT (C) 2004 Japanese Patent Office (JPO) - JAPIO

FILE 'SCISEARCH' ENTERED AT 15:54:28 ON 26 JUL 2004
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FILE 'USPAT2' ENTERED AT 15:54:28 ON 26 JUL 2004
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=> s l1 and shampoo
'SQSP' IS NOT A VALID FIELD CODE

'SQSP' IS NOT A VALID FIELD CODE
 'SQSP' IS NOT A VALID FIELD CODE
 7 FILES SEARCHED...
 'SQSP' IS NOT A VALID FIELD CODE
 L4 0 L1 AND SHAMPOO

=> s l2 and shampoo
 'SQSP' IS NOT A VALID FIELD CODE
 L5 4 L2 AND SHAMPOO

=> s l3 and shampoo
 'SQSP' IS NOT A VALID FIELD CODE
 L6 5 L3 AND SHAMPOO

=> s l5 or l6
 L7 5 L5 OR L6

=> dup rem 17
 PROCESSING COMPLETED FOR L7
 L8 4 DUP REM L7 (1 DUPLICATE REMOVED)

=> d 18 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
 AN 2003:950441 CAPLUS
 DN 140:1183
 TI Use of α -MSH and α -MSH-derived peptides for treatment of pruritus in animals
 IN Lipton, James M.; Catania, Anna P.
 PA USA
 SO U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 23,287.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | US 2003223949 | A1 | 20031204 | US 2002-322577 | 20021217 |
| | US 2003129156 | A1 | 20030710 | US 2001-23287 | 20011217 |
| PRAI | US 2001-23287 | A2 | 20011217 | | |

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:491065 CAPLUS
 DN 139:63360
 TI Use of α -MSH and α -MSH-derived peptides for treatment of pruritus in animals
 IN Lipton, James M.; Catania, Anna P.
 PA Zengen, Inc., USA
 SO PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 2003051390 | A1 | 20030626 | WO 2002-US40313 | 20021217 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, | | | | |

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG
US 2003129156 A1 20030710 US 2001-23287 20011217
PRAI US 2001-23287 A 20011217
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 USPATFULL on STN
AN 2003:187370 USPATFULL
TI Use of a polypeptide for treatment of pruritis in animals
IN Lipton, James M., Woodland Hills, CA, UNITED STATES
Catania, Anna P., Milan, ITALY
PI US 2003129156 A1 20030710
AI US 2001-23287 A1 20011217 (10)
DT Utility
FS APPLICATION
LN.CNT 1612
INCL INCLM: 424/070.210
INCLS: 514/018.000; 514/014.000; 514/015.000; 514/016.000
NCL NCLM: 424/070.210
NCLS: 514/018.000; 514/014.000; 514/015.000; 514/016.000
IC [7]
ICM: A61K038-10
ICS: A61K038-08; A61K038-05
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 4 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 74164616 EMBASE
DN 1974164616
TI Treatment of scalp disorders.
AU Munro D.D.
CS St. Bartholomew's Hosp., London, United Kingdom
SO British Medical Journal, (1974) 1/5901 (236-238).
CODEN: BMJOAE
DT Journal
FS 037 Drug Literature Index
013 Dermatology and Venereology
LA English

=> d 18 4 kwic hit

L8 ANSWER 4 OF 4 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
CT Medical Descriptors:
*alopecia
*ammonium mercuric chloride
*circumscribed neurodermatitis
*dandruff
*eczema
*nerve cell firing frequency
*scalp
*seborrheic dermatitis
*skin tumor
topical drug administration
therapy
diagnosis

review
*aluminum acetate
*amphotericin
*betamethasone
*chlortetracycline
*clotrimazole
*coal tar
*copper
*dithranol
*fluocinolone
*fluorouracil
*fusidic acid
*griseofulvin
*hexachlorophene
*nystatin
*permanganate potassium
*salicylic acid
*selenium
*sulfamethoxazole
*sulfur
*tetracosactide
*tolnaftate
*triamcinolone
*trimethoprim
*zinc
pyrithione zinc
deep cleansing shampoo

zp 11
selenium sulfide
lenium
genisol
alphosyl
betamethasone valerate
lindane
fluocinolone acetonide
tricaderm
nystaform
amphotericin b
fusidate sodium
unclassified drug

RN. . . 70-30-4; (nystatin) 1400-61-9, 34786-70-4, 62997-67-5; (permanganate potassium) 7722-64-7; (salicylic acid) 63-36-5, 69-72-7; (selenium) 7782-49-2; (sulfamethoxazole) 723-46-6; (sulfur) 13981-57-2, 7704-34-9; (tetracosactide) 16960-16-0; (tolnaftate) 2398-96-1; (triamcinolone) 124-94-7; (trimethoprim) 738-70-5; (zinc) 7440-66-6; (pyrithione zinc) 13463-41-7; (selenium sulfide) 56093-45-9, 7446-34-6, 7488-56-4, 8012-80-4; (betamethasone valerate) 2152-44-5, . . .

CN Head and shoulders; **Deep cleansing shampoo**; Zp 11; Selsun;
Lenium; Genisol; Alphosyl; Betnovate; Lorexane; Synalar; Tricaderm;
Nystaform; Fungilin; Canesten; Synacthen; Fucidin; Tinaderm

CT Medical Descriptors:

*alopecia
*ammonium mercuric chloride
*circumscribed neurodermatitis
*dandruff
*eczema
*nerve cell firing frequency
*scalp
*seborrheic dermatitis
*skin tumor
topical drug administration
therapy
diagnosis
review

Drug Descriptors:
*aluminum acetate
*amphotericin
*betamethasone
*chlortetracycline
*clotrimazole
*coal tar
*copper
*dithranol
*fluocinolone
*fluorouracil
*fusidic acid
*griseofulvin
*hexachlorophene
*nystatin
*permanganate potassium
*salicylic acid
*selenium
*sulfamethoxazole
*sulfur
*tetracosactide
*tolnaftate
*triamicinolone
*trimethoprim
*zinc
pyrithione zinc
 deep cleansing shampoo
zp 11
selenium sulfide
lenium
genisol
alphosyl
betamethasone valerate
lindane
fluocinolone acetonide
tricaderm
nystaform
amphotericin b
fusidate sodium
unclassified drug

RN (aluminum acetate) 139-12-8, 7360-44-3; (amphotericin) 12633-72-6;
(betamethasone) 378-44-9; (chlortetracycline) 12691-62-2, 57-62-5,
64-72-2, 78794-02-2; (clotrimazole) 23593-75-1; (coal tar) 8007-45-2;
(copper) 15158-11-9, 7440-50-8; (dithranol) 1143-38-0, 480-22-8;
(fluocinolone) 807-38-5; (fluorouracil) 51-21-8; (fusidic acid) 6990-06-3;
(griseofulvin) 126-07-8; (hexachlorophene) 11119-93-0, 70-30-4; (nystatin)
1400-61-9, 34786-70-4, 62997-67-5; (permanganate potassium) 7722-64-7;
(salicylic acid) 63-36-5, 69-72-7; (selenium) 7782-49-2;
(sulfamethoxazole) 723-46-6; (sulfur) 13981-57-2, 7704-34-9;
(tetracosactide) **16960-16-0**; (tolnaftate) 2398-96-1;
(triamicinolone) 124-94-7; (trimethoprim) 738-70-5; (zinc) 7440-66-6;
(pyrithione zinc) 13463-41-7; (selenium sulfide) 56093-45-9, 7446-34-6,
7488-56-4, 8012-80-4; (betamethasone valerate) 2152-44-5, 57654-97-4;
(lindane) 58-89-9; (fluocinolone acetonide) 67-73-2; (amphotericin b)
1397-89-3, 30652-87-0; (fusidate sodium) 751-94-0

CN Head and shoulders; **Deep cleansing shampoo**; Zp 11; Selsun;
Lenium; Genisol; Alphosyl; Betnovate; Lorexane; Synalar; Tricaderm;
Nystaform; Fungilin; Canesten; Synacthen; Fucidin; Tinaderm

=> FIL REGISTRY

COST IN U.S. DOLLARS

| SINCE ENTRY | FILE | TOTAL |
|-------------|------|---------|
| | | SESSION |

FULL ESTIMATED COST

186.87

267.42

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STRUCTURE FILE UPDATES: 25 JUL 2004 HIGHEST RN 716315-35-4
DICTIONARY FILE UPDATES: 25 JUL 2004 HIGHEST RN 716315-35-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 16960-16-0/RN

L9 1 16960-16-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L9 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 5.92 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 16960-16-0 REGISTRY
CN α1-24-Corticotropin (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (1-24)α-ACTH
CN α1-24-ACTH
CN α1-24-Adrenocorticotropic hormone
CN β-Corticotrophin-(1-24)-tetracosapeptide
CN β1-24-ACTH
CN β1-24-Corticotropin
CN β1-24-Tetracosactide
CN 10: PN: WO03051390 PAGE: 52 claimed protein
CN 2136: PN: WO03060071 SEQID: 2198 unclaimed
CN 4: PN: WO2004045592 SEQID: 3 unclaimed sequence
CN 8: PN: WO0069900 SEQID: 7 unclaimed sequence
CN ACTHα1-24
CN ACTH1-24
CN Actholain
CN Adrenocorticotropic(1-24)
CN Ba 30920
CN Ba 36716
CN Corticotropin-(1-24)
CN Cortrophin S
CN Cortrosinta

CN Cortrosyn
 CN Cosyntropin
 CN Human ACTH (1-24)
 CN L-Proline, L-seryl-L-tyrosyl-L-seryl-L-methionyl-L-glutamyl-L- α -histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycyl-L-lysyl-L-prolyl-L-valylglycyl-L-lysyl-L-lysyl-L-arginyl-L-arginyl-L-prolyl-L-valyl-L-lysyl-L-valyl-L-tyrosyl-
 CN Nuvacthen Depot
 CN PN: WO9952928 SEQID: 9 claimed protein
 CN Porcine ACTH (1-24)
 CN Synacthen
 CN Synacthene
 CN Synacthene-retard
 CN Synecthen
 CN Tetracosactid
 CN Tetracosactide
 CN Tetracosactrin
 CN Tetracosapeptide
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 24

PATENT ANNOTATIONS (PNTE) :

| Sequence | Patent |
|-------------|--------------|
| Source | Reference |
| Not Given | WO2000069900 |
| | unclaimed |
| | SEQID 7 |
| -----+----- | -----+----- |
| | WO9952928 |
| | claimed |
| | SEQID 9 |

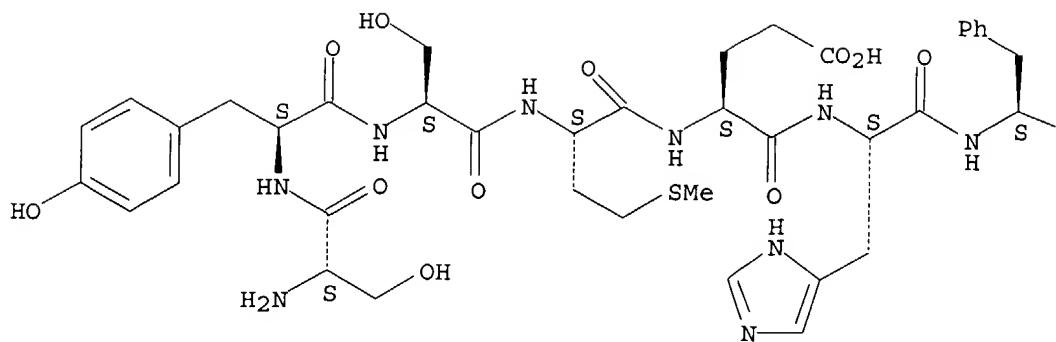
SEQ 1 SYSMEHFRWG KPVGKKRRPV KVYP

RELATED SEQUENCES AVAILABLE WITH SEQLINK

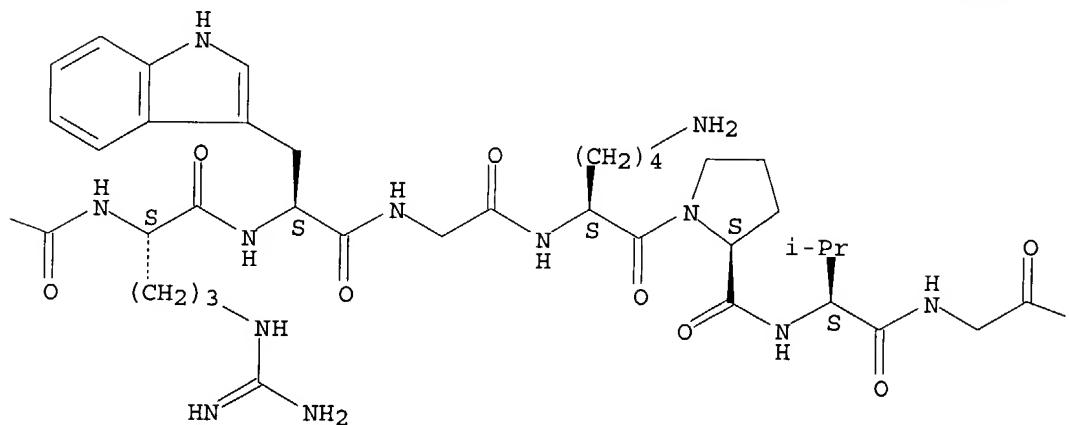
DR 35-33-6, 17008-05-8, 37341-02-9, 52051-40-8
 MF C136 H210 N40 O31 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM,
 DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
 study); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
 RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

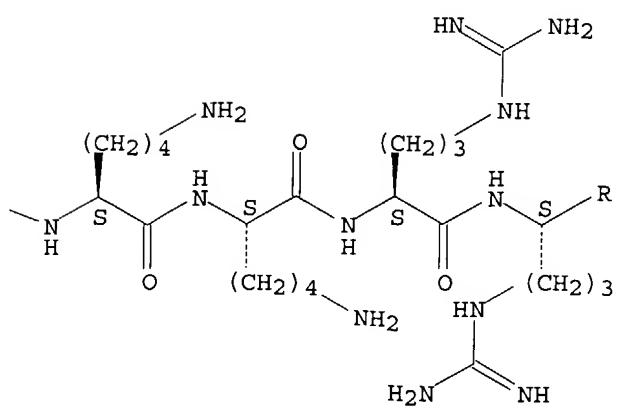
PAGE 1-A



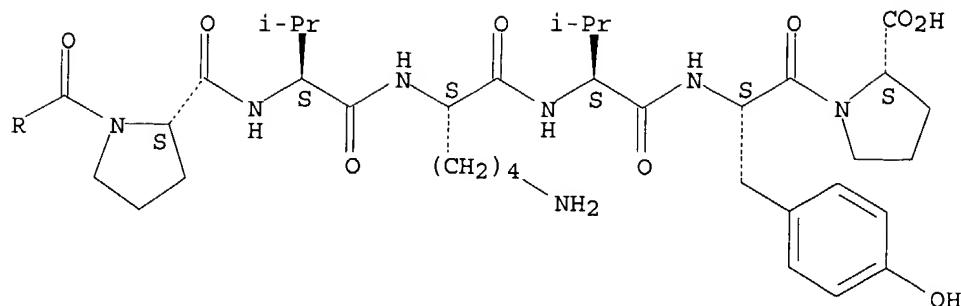
PAGE 1-B



PAGE 1-C



PAGE 2-A



2051 REFERENCES IN FILE CA (1907 TO DATE)

21 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2053 REFERENCES IN FILE CAPLUS (1907 TO DATE)

13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND

SET COMMAND COMPLETED

=>